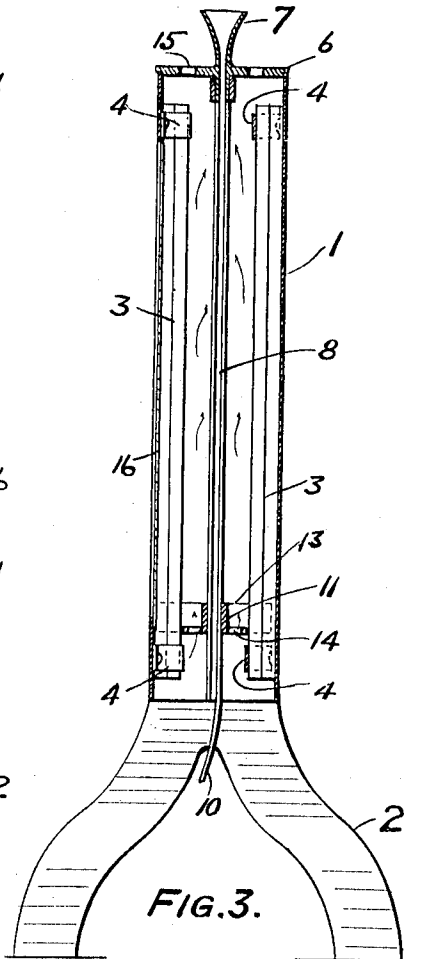
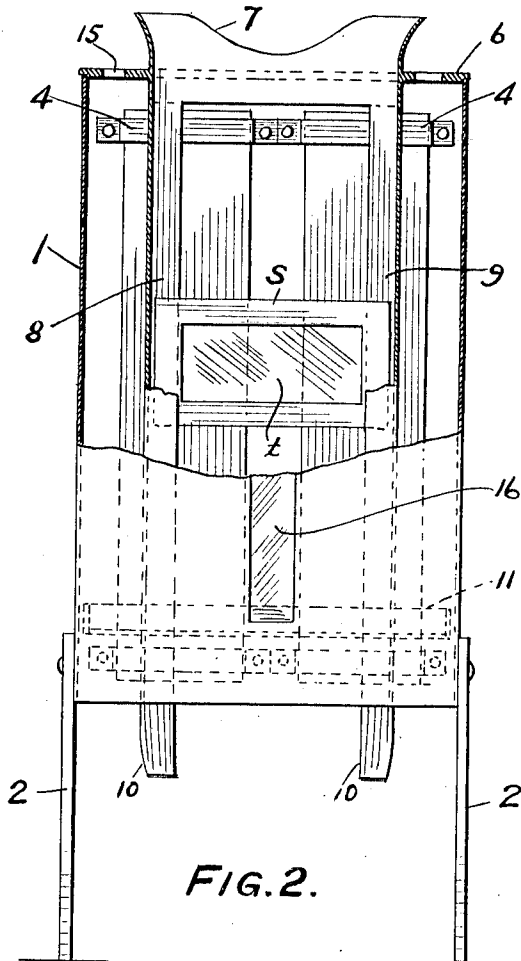
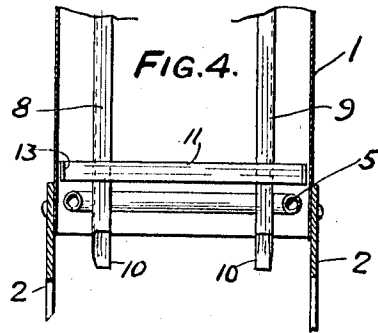
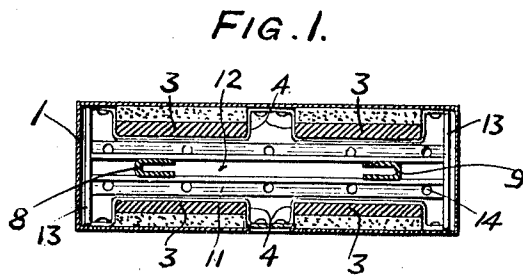


W. P. SARGENT.
STENCIL DRIER.
APPLICATION FILED OCT. 3, 1911.

1,051,640.

Patented Jan. 28, 1913.



WITNESSES:

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UNITED STATES PATENT OFFICE.

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STENCIL-DRIER.

1,051,640.

Specification of Letters Patent.

Patented Jan. 28, 1913.

Application filed October 3, 1911. Serial No. 652,538.

To all whom it may concern:

Be it known that I, WILLIAM P. SARGENT, a citizen of the United States, residing at Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented a certain new and useful Stencil-Drier, of which the following is a specification.

Stencils consisting of comparatively thin paper or tissue having marginal frames, as of card-board, are frequently employed by writing addresses upon them by means of type-writers and then printing such addresses on wrappers, envelopes and the like. The thin tissue or paper is impregnated with some suitable preparation and has to be wet or moist when used in a type-writer and dried for use in printing.

Objects of the present invention are to provide for saving labor in drying the stencils; to provide for drying the stencils uniformly so as to avoid warping and the like, to preserve the sequence of the stencils; and to provide a simple and easily manipulated drier in which the stencils are dried in the proper manner and at the appropriate temperature and as rapidly as they are produced so that they can be delivered without delay to inspectors, proof readers or persons desiring to print from them.

The invention will be claimed at the end hereof, but will first be described in connection with the embodiment selected from other embodiments of it for illustration in the accompanying drawings, in which—

Figure 1, is a horizontal sectional view of a drier embodying features of the invention. Fig. 2, is a front view of the same with parts broken away. Fig. 3, is a transverse sectional view of the same and Fig. 4, is a transverse sectional view showing a modification.

In the drawings, 1 is a housing or casing open at its top and bottom and mounted upon legs 2. Extending through the housing and arranged generally centrally thereof are guiding or conveyor means operating upon the frames or margins of the stencils so as to expose both their faces unobstructedly for drying. These means are shown as a fixed stencil chute and between the stencil chute and the walls of the housing are heaters.

As shown in Figs. 1-3 the heaters 3, are of the electric variety and are applied in

pairs to the back and front walls to which they are secured by loops or straps 4.

As shown in Fig. 4, the heater 5, is arranged near the base of the housing and surrounds the chute. The chute is shown as carried by the lid 6, of the housing and the chute consists of a bell-mouth 7, and of depending channel members 8 and 9, spaced apart with their channels or grooves confronting. These channel members at their lower ends have one of their walls cut away and the other wall 10, slightly curved in the direction of the wall that is cut away. The lid 6, serves to hold the channel members in proper spaced relation at the top, and the brace 11, slotted at 12, serves to hold the channel members in proper spaced relation at the bottom and this brace 11, is provided with cross-pieces 13, guided by the walls of the housing or casing. The brace is provided with openings 14, and the lid with openings 15, which afford circulation. The housing or casing 1, may be provided with a glazed opening 16, through which its contents can be viewed. Evidently the chute and its accessories can be lifted out of the casing 1, leaving therein only the heaters.

In use the heaters are connected with a suitable source of heat or energy, in the present instance, to an electric circuit, and they serve to heat the interior of the housing or casing to the proper temperature for drying the stencils in the appropriate time and without over-heating them. As the operator finishes writing the stencils, which are wet, they are placed one at a time through the bell-mouth 7, so that their edges enter the grooves in the channel members while both faces of their intermediate portions are exposed within the heated interior of the housing or casing.

S, is a stencil and both faces of the portion *t*, thereof are exposed for drying. The curved portions 10, of the chute serve as stops to prevent the stencils from falling through the housing or casing 1, while at the same time permitting the stencils to be pushed one at a time and by the oncoming stencils out of the housing or casing 1. The operator introduces wet stencils one after another into the bell-mouth 7. The chute accommodates several stencils and as one is added at the top another is pushed out at the bottom, thus each stencil is delayed in the

housing or casing for a period long enough to properly dry it while the drying operation is not unduly delayed and the stencils as soon as dried may be inspected or otherwise used. In the arrangement shown in Figs. 1-3, the stencils are dried principally by radiation, whereas in the arrangement of Fig. 4, they are dried principally by convection.

10 What I claim is:

1. A stencil drier comprising the combination of a housing, means for internally heating the housing, and a stencil chute extending through the housing and consisting of
15 confronting channel members spaced apart and having one of their walls cut away at the ends and the other of their walls curved toward the wall that is cut away to retard the passage of stencils, substantially as described.
20

2. A stencil drier comprising the combination of an upright housing open at its top and bottom and mounted on suitable feet or

legs, a lid for said housing provided with a bell-mouth, confronting channel members depending from the lid and having at their ends one of their walls cut away and the other of their walls curved toward the wall that is cut away, and a brace connected with said channel members and fitting the interior of the housing, substantially as described. 25 30

3. A stencil drier comprising the combination of a housing open at its ends, heating means arranged in said housing with space between for the passage of stencils, and a chute extending through the housing and consisting of confronting channel members the grooves of which receive the edges of stencils, substantially as described. 35 40

In testimony whereof I have hereunto signed my name.

WM. P. SARGENT.

Witnesses:

CLIFFORD K. CASSEL,
K. M. GILLIGAN.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."